

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A method of treating asthma, comprising:
selecting an airway for treatment, wherein the airway has hypertrophied airway smooth muscle;
irradiating a length of the airway with a light source having a wavelength of about 240 nm to about 280 nm and an intensity which causes a change in the airway such that a thickness of the airway smooth muscle decreases and bronchoconstriction of the airway is reduced.
2. (Previously Presented) The method of claim 1, where the change in the airway occurs in smooth muscle cells.
3. (Previously Presented) The method of claim 1, where the change in the airway occurs in mucus gland cells.
- 4-6. (Canceled)
7. (Original) The method of claim 1, further comprising moving the light source along the airway.
8. (Canceled)
9. (Currently Amended) The method of claim 1, where irradiating the length of the change in the airway further comprises preventing airway cells from replicating.

10. (Previously Presented) The method of controlling mucus within a lung, comprising:

selecting an airway for treatment;

irradiating a length of the airway with a light source having a wavelength of about 240 nm to about 280 nm and an intensity which causes a change in airway mucus gland cells such that mucus secretions of the airway are reduced.

11-14. (Canceled)

15. (Original) The method of claim 10, further comprising moving the light source along the airway.